

MISBAKHUL MUNIR

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PROFESSIONAL SUMMARY

Senior Data Analyst & Business Intelligence Professional with 10+ years of experience delivering enterprise analytics, reporting automation, and data quality solutions across the Manufacturing and FMCG industries, including consulting engagements within Oil & Gas and EPC sectors. Experienced working in global business environments including Cargill and Philip Morris International, bridging business requirements with data and technology solutions through reporting automation, data governance, and master data management. Skilled in Power BI, SQL, Python, Snowflake, and SAP with expertise in ERP systems, business analysis, cross-functional stakeholder collaboration, and process optimization to improve business visibility and decision-making.

TECHNICAL SKILLS

BI & Visualization	: Power BI, Tableau, Looker Studio, SAP BusinessObjects, Data Visualization, Executive Reporting, KPI Reporting, Performance Analysis
Data & Database	: SQL, Snowflake, Azure Databricks, PostgreSQL, Data Modeling, ETL
Enterprise Systems	: SAP, IBM Maximo (CMMS), JDE, OSISoft PI, RTDuet, Asset Management
Automation & Programming	: Python, Power Automate, API Integration, SAP Scripting, VBA, Apps Script
Data Management & Analytics	: Business Analysis, Enterprise Analytics, Data Quality, Data Governance, Master Data Management, Reporting Automation, Root Cause Analysis
Industry & Domain Exposure	: Manufacturing, FMCG, Technology, Consulting Projects in Oil & Gas and EPC

PROFESSIONAL EXPERIENCES

Philip Morris International - Surabaya, Indonesia

Data Analyst - Business Intelligence & Reporting Automation April 2023 - Present

- Redesigned enterprise reporting processes by integrating SAP and Snowflake into automated Power BI data pipelines, reducing reporting effort from 20 man-days to 0.5 days (97% improvement) while improving reporting accuracy and business visibility.
- Partnered with cross-functional stakeholders to translate business requirements into scalable reporting solutions, data quality frameworks, and process improvements supporting global business operations.
- Led data preparation, profiling, cleansing, and validation activities for Master Data Governance (MDG) migration projects, ensuring data consistency, integrity, and successful system transition.
- Designed and implemented automated data quality validation frameworks, duplicate detection models, and inactive master data controls to improve data governance, reduce operational risks, and strengthen enterprise data quality.
- Developed executive and operational dashboards, KPI reporting solutions, and automated reporting workflows using Power BI, Snowflake, Python, and Power Automate to improve business visibility, monitor performance, and support data-driven decision-making.
- Conducted data profiling, root cause analysis, and issue resolution on recurring data quality issues while collaborating with business stakeholders to implement preventive controls and standardized data processes.
- Documented business rules, data validation logic, and reporting requirements to support standardized implementation, solution governance, and long-term reporting consistency across business functions.
- Supported enterprise digital transformation initiatives by improving data readiness, automating business workflows, and evaluating AI-assisted reporting solutions to enhance operational efficiency and productivity.
- Evaluated and implemented AI-assisted workflows using Microsoft Copilot and generative AI tools to enhance reporting efficiency, documentation quality, and business productivity while supporting enterprise AI adoption.

Cargill - Gresik, Indonesia*Data Analyst & ERP Functional Specialist**August 2016 - March 2023*

- Managed end-to-end IBM Maximo operations covering asset management, maintenance execution, inventory control, and procurement workflows to support operational reliability and standardized maintenance processes across business units.
- Supported ERP migration initiatives from IBM Maximo to SAP by contributing to data readiness, business process alignment, system analysis, and functional testing to ensure seamless transition.
- Acted as System Analyst for Bonded Zone implementation by translating complex business processes into inventory system solutions, ensuring data validation and system reliability that contributed to USD 2M in tax optimization.
- Supported ERP rollout for newly commissioned plants by aligning business processes, validating operational requirements, and standardizing enterprise workflows across regional business units.
- Developed automated reporting and analytics solutions using SQL, Python, Power BI, and SAP BusinessObjects to improve operational visibility, data accuracy, and maintenance decision-making.
- Leveraged real-time operational data from OSIsoft PI and RTDuet to perform root cause analysis, equipment reliability assessments, and operational troubleshooting across maintenance activities.
- Partnered with operations, finance, and engineering teams to translate business requirements into system solutions supporting data-driven operational decisions.
- Analyzed operational workflows and maintenance processes to develop digital tracking and performance dashboards, improving equipment visibility and enabling proactive maintenance scheduling to reduce downtime risk.
- Developed financial and operational reconciliation models between JDE finance reports and IBM Maximo actuals to improve budget accuracy and strengthen cost control mechanisms.
- Conducted root cause analysis on operational, financial, and maintenance data issues to identify process inefficiencies, improve data reliability, and support continuous improvement initiatives.
- Served as regional IBM Maximo Functional Specialist, providing end-user support, system administration, user training, and functional guidance to ensure system stability, user adoption, and operational continuity across multiple business units.

Self-Employed - Remote*Independent Data Analytics, Business Intelligence & Systems Consultant**May 2013 - Present*

- Delivered 100+ enterprise analytics, reporting automation, and business systems solutions across Manufacturing, FMCG, Oil & Gas, EPC, Insurance, and Public Sector organizations through independent consulting engagements.
- Collaborated with business stakeholders and technical teams to translate business requirements into scalable analytics, reporting, automation, and enterprise system solutions while managing projects from business analysis through implementation.
- Designed and delivered Business Intelligence, reporting, and data visualization solutions using Power BI, Tableau, Looker Studio, SQL, and Python to support operational reporting, executive dashboards, and business decision-making.
- Built enterprise data integration and ETL solutions across Snowflake, Azure Databricks, BigQuery, PostgreSQL, and SQL Server, improving reporting scalability, data reliability, and operational analytics.
- Developed enterprise applications, workflow automation, and digital transformation solutions using Power Automate, VBA, API integration, and scripting technologies for enterprise clients.
- Designed EPC project monitoring solutions for Mining and Oil & Gas projects, integrating interactive 3D Power BI visualizations to support project progress, budgeting, and scheduling.
- Multi-time hackathon winner recognized for rapid prototyping, analytical problem-solving, and delivering innovative technical solutions under tight project timelines.

PDAM Surya Sembada - Surabaya, Indonesia*Mobile Application Developer**July 2015 - June 2016*

- Performed systems analysis, application testing, and mobile application development to streamline operational workflows and support business process automation by aligning application functionality with user requirements to improve usability, operational efficiency, and system adoption.
- Designed and optimized SQL queries, database modules, and data validation processes to support application functionality, improve data accuracy, and ensure reliable transaction processing.

Maxxima Innovative Engineering - Surabaya, Indonesia

Application Developer

May 2013 - April 2015

- Collaborated with military experts to perform systems analysis and develop Warship Simulation System applications for the Indonesian Navy (TNI AL), enabling realistic maritime operation simulations to support tactical training and operational readiness.
- Designed and implemented database integration and data management components to ensure application reliability, data consistency, and efficient simulation processing.

SELECTED PROJECTS

Integrated 3D EPC Monitoring System for Mining and Oil & Gas Projects

Role: Business Analyst, Data Analyst & Business Intelligence Developer

- Designed and implemented an integrated EPC project monitoring solution with interactive 3D Power BI visualizations to enable tracking of project progress, budgeting, scheduling, and key milestones.

IBM Maximo Asset Data Optimization & Maintenance Analytics

Role: Data Analyst, Data Management & Business Intelligence Developer

- Optimized IBM Maximo asset data through data cleansing and dashboard redesign initiatives, improving maintenance visibility, reporting accuracy, and operational decision-making.

Enterprise Financial Reporting Solutions with Azure Databricks

Role: Data Analyst & Business Intelligence Developer

- Developed enterprise financial reporting solutions using Azure Databricks and Power BI to automate data processing, improve reporting accuracy, and accelerate reporting for Oil & Gas operations.

Safety Management System for Heavy Industry Operations

Role: System Analyst & Software Developer

- Analyzed safety workflows and developed digital applications for hazard reporting and compliance monitoring, improving operational safety and supporting regulatory compliance.

Enterprise Workflow Automation & Power Platform Solutions

Role: System Analyst & Power Platform Developer

- Developed Power Platform solutions using Power Apps, Power Automate, Microsoft Forms, and Outlook to automate approval workflows, reporting, inspections, and 5S operations with checklists, documentation, and follow-up tracking, improving efficiency, report delivery, and compliance.

EDUCATION

Electronic Engineering Polytechnic Institute of Surabaya (EEPIS) - Surabaya, Indonesia

Bachelor Degree in Computer Science (Informatics Engineering), GPA 3.48/4.00 August 2013 - March 2015

Airlangga University - Surabaya, Indonesia

Diploma Degree in Instrumentation System, GPA 3.59/4.00

August 2010 - July 2013

AWARDS & ACHIEVEMENTS

- 1st Place - Most Outstanding Student, Diploma Program - *FST Airlangga University (2013)*
- 1st Place - Waste Data Hackathon - *Secondmuse (2019)*
- 1st place - Hackathon Energi Negeri - *Dewan Energi Mahasiswa Indonesia (2021)*

ADDITIONAL

Languages : Indonesian (Native), English (Fluent)

Certifications :

- Certified Data Analyst - *Badan Nasional Sertifikasi Profesi (BNSP), Indonesia*
- SQL and Problem Solving - *HackerRank*